	1 2	3. (Amended) A process according to claim 1 wherein the hydrocarbon is a straight chain hydrocarbon or a branch chain hydrocarbon.
		
	1	6. (Amended) A process according to claim 1 wherein the
	2	hydrocarbon is selected from methane, propane, butane, hexane, heptane, normal-
	3	octane, iso-octane, naphthas, liquified petroleum gas, reformulated petrol and
17	4	diesel-type fuels.
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	1	7. (Amended) A process according to claim 1 wherein the
	2	oxygen-containing gas is air.
	1	8. (Amended) A process according to claim 1 wherein rhodium
	2	comprises 0.1 weight per cent to 5 weight per cent of the total weight of the
	3	supported catalyst.
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T8 W	1	10. (Amended) A process according to claim 1 wherein the
	2	refractory oxide support material is a mixture of ceria and zirconia.
	1	13. (Amended) A process according to claim 1 wherein the
Ud 🖺	2	, 1
]	2	catalyst is pre-heated to a temperature at which self-sustaining partial oxidation of the hydrocarbon commences.
	-	- the hydrocarden commences.
- 1	1	18. (Amended) A process according to claim 1 wherein the
. =	2	mixture of the hydrocarbon and the oxygen-containing gas is fed to the catalyst
<u>ļ.</u>	3	when the catalyst has reached the temperature at which self-sustaining partial
	4	oxidation of the hydrocarbon will occur.
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\circ	1	19. (Amended) A process as claimed in claim 1 operated in
	2	combination with a catalysed water-gas shift reaction for the reduction of carbon
	3	monoxide in the hydrogen produced from the hydrogen.
·· ·	1	21. (Amended) A process according to claim 19 wherein the
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7/ /	3	water-gas shift reaction catalyst is added to the rhodium based catalyst for the hydrogen generation reaction.
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